

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| S2    | 13   | track\$4 same voicexml and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 09:58 |
| S3    | 103  | interpret\$4 same voicexml and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 09:43 |
| S5    | 65   | ((execut\$4 interpret\$4) same voicexml) and ((identif\$4 locat\$4 detect\$4 determin\$4) same voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 12:47 |
| S8    | 30   | (record\$4 cach\$4 register\$4 follow\$4 monitor\$4 track\$4) same voicexml same execut\$4 and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 10:05 |
| S9    | 12   | (identif\$4 locat\$4 detect\$4) with voicexml same document and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 10:08 |
| S10   | 45   | (identif\$4 locat\$4 detect\$4) with voicexml and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 10:08 |
| S11   | 77   | (identif\$4 locat\$4 detect\$4) with (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 10:14 |
| S12   | 2    | (paus\$4 stop\$4 ceas\$4 halt\$4 cancel\$4 abort\$4) with execut\$4 with (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/09 10:46 |

## EAST Search History

|     |    |   |  |    |    |                  |
|-----|----|---|--|----|----|------------------|
| S15 | 18 | (paus\$4 stop\$4 ceas\$4 halt\$4 cancel\$4 abort\$4) same (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 10:20 |
| S16 | 77 | (load\$4 download\$4 install\$4) same (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 10:22 |
| S17 | 5  | (track\$4 monitor\$4) same (load\$4 download\$4 install\$4) same (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 13:38 |
| S18 | 7  | compiler with (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 10:25 |
| S21 | 7  | (generat\$4 creat\$4 build\$4 construct\$4) same (interpret\$6) same (VXML voicexml) same compiler and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 10:32 |
| S23 | 51 | S22 not S21   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 10:32 |
| S25 | 5  | (identif\$4 locat\$4 detect\$4) same (VXML voicexml) and ((paus\$4 halt\$4 ceas\$4 stop\$4) with execut\$5) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 10:45 |
| S26 | 5  | (identif\$4 locat\$4 detect\$4 occurrence) same (VXML voicexml) and ((paus\$4 halt\$4 ceas\$4 stop\$4) with execut\$5) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 10:45 |

## EAST Search History

|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S27 | 2  | (paus\$4 stop\$4 ceas\$4 halt\$4 cancel\$4 abort\$4 terminat\$4) with execut\$4 with (VXML voicexml) and (@ad<"20011221"<br>@prad<"20011221"<br>@rlad<"20011221") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 10:46 |
| S28 | 20 | (paus\$4 stop\$4 ceas\$4 halt\$4 cancel\$4 abort\$4 terminat\$4) with (VXML voicexml) and (@ad<"20011221"<br>@prad<"20011221"<br>@rlad<"20011221")                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 10:47 |
| S29 | 11 | ( terminat\$4) with (VXML voicexml) and (@ad<"20011221"<br>@prad<"20011221"<br>@rlad<"20011221")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 10:48 |
| S30 | 10 | ( download\$4) with (VXML voicexml) and (@ad<"20011221"<br>@prad<"20011221"<br>@rlad<"20011221")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 10:49 |
| S31 | 33 | ( load\$4 install\$4 download\$4) with (VXML voicexml) and (@ad<"20011221"<br>@prad<"20011221"<br>@rlad<"20011221")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 10:49 |
| S33 | 23 | S32 not S30   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 10:50 |
| S34 | 67 | ( locat\$4 address) with (VXML voicexml) and (@ad<"20011221"<br>@prad<"20011221"<br>@rlad<"20011221")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 14:31 |
| S36 | 18 | (paus\$4 stop\$4 ceas\$4 halt\$4 cancel\$4 abort\$4) same (VXML voicexml) and (@ad<"20011221"<br>@prad<"20011221"<br>@rlad<"20011221")                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/09 13:36 |

## EAST Search History

|     |    |  |  |    |    |                  |
|-----|----|--|--|----|----|------------------|
| S37 | 47 | (track\$4 monitor\$4) same (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 13:49 |
| S39 | 40 | (check\$4 determin\$4 ) same execut\$4 same (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 13:54 |
| S40 | 90 | ( request\$4) with (VXML voicexml) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 14:32 |
| S41 | 86 | ( detect\$4 identif\$4 determin\$4 check\$4) with (VXML voicexml (voice adj xml)) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 14:40 |
| S42 | 3  | debug\$6 with (VXML voicexml (voice adj xml)) and (@ad<"20011221" @prad<"20011221" @rlad<"20011221")                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/09 14:48 |

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Relevance scale **1 Browsing: Building voiceXML browsers with openVXI** Brian Eberman, Jerry Carter, Darren Meyer, David Goddeau May 2002 **Proceedings of the 11th international conference on World Wide Web****Publisher:** ACM PressFull text available:  pdf(209.58 KB) Additional Information: full citation, abstract, references, index terms

The OpenVXI is a portable open source based toolkit that interprets the VoiceXML dialog markup language. It is designed to serve as a framework for system integrators and platform vendors who want to incorporate VoiceXML into their platform. A first version of the toolkit was released in the winter of 2001, with a second version released in September of 2001. A number of companies and individuals have adopted the toolkit for their platforms. In this paper we discuss the architecture of the toolk ...

**Keywords:** openVXI, voiceXML**2 Mixed-initiative interaction = mixed computation** Naren Ramakrishnan, Robert G. Capra, Manuel A. Pérez-Quiñones January 2002 **ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation PEPM '02**, Volume 37 Issue 3**Publisher:** ACM PressFull text available:  pdf(198.73 KB) Additional Information: full citation, abstract, references, citations, index terms

We show that partial evaluation can be usefully viewed as a programming model for realizing mixed-initiative functionality in interactive applications. Mixed-initiative interaction between two participants is one where the parties can take turns at any time to change and steer the flow of interaction. We concentrate on the facet of mixed-initiative referred to as 'unsolicited reporting' and demonstrate how out-of-turn interactions by users can be modeled by 'jumping ahead' to nested dialogs (via ...

**Keywords:** Mixed-initiative interaction, VoiceXML, dialog management, interaction sequences, partial evaluation**3 An open architecture for next-generation telecommunication services** Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1**Publisher:** ACM PressFull text available:  pdf(237.24 KB) Additional Information: full citation, abstract, references, citations, index terms

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencies ...

**Keywords:** Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

#### 4 Automated systematic testing for constraint-based interactive services

 Patrice Godefroid, Lalita J. Jagadeesan, Radha Jagadeesan, Konstantin Läufer

November 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th ACM SIGSOFT international symposium on Foundations of software engineering: twenty-first century applications SIGSOFT '00/FSE-8,**  
Volume 25 Issue 6

Publisher: ACM Press

Full text available:  [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Constraint-based languages can express in a concise way the complex logic of a new generation of interactive services for applications such as banking or stock trading, that must support multiple types of interfaces for accessing the same data. These include automatic speech-recognition interfaces where inputs may be provided in any order by users of the service. We study in this paper how to systematically test event-driven applications developed using such languages. We show how such applic ...

**Keywords:** constraint-based languages, interactive services, model checking, state explosion, state-space reduction, testing, verification

#### 5 Spoken dialogue technology: enabling the conversational user interface

 Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(987.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

**Keywords:** Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

#### 6 Posters & demos: WebContext: remote access to shared context

 Robert G. Capra, Manuel A. Pérez-Quiñones, Naren Ramakrishnan

November 2001 **Proceedings of the 2001 workshop on Perceptive user interfaces PUI '01**

Publisher: ACM Press

Full text available:  [pdf\(136.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we describe a system and architecture for building and remotely accessing

shared context between a user and a computer. The system is designed to allow a user to browse web pages on a personal computer and then remotely make queries about information seen on the web pages using a telephone-based voice user interface.

**Keywords:** VoiceXML, information access, shared context, software architecture, telephone-based user interfaces, voice user interfaces

## 7 The <bigwig> project

 Claus Brabrand, Anders Møller, Michael I. Schwartzbach

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(586.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

**Keywords:** Interactive Web services, program analysis

## 8 Surfing the net for software engineering notes: Surfing the net for software

 engineering notes

Mark Doernhoefer

May 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#)

## 9 Programming by voice, VocalProgramming

 Stephen C. Arnold, Leo Mark, John Goldthwaite

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available:  [pdf\(92.05 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** XML, computer programming, voice recognition

## 10 Towards junking the PBX: deploying IP telephony

 Wenyu Jiang, Jonathan Lennox, Henning Schulzrinne, Kundan Singh

January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video**

Publisher: ACM Press

Full text available:  [pdf\(312.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe the architecture and implementation of our Internet telephony test-bed intended to replace the departmental PBX (telephone switch). It interworks with the traditional telephone networks via a PSTN/IP gateway. It also serves as a corporate or campus infrastructure for existing and future services like web, email, video and streaming media. Initially intended for a few users, it will eventually replace the plain old

telephones from our offices, due to the cost benefit and new ...

**Keywords:** PSTN/IP interoperability, SIP, VoIP test-bed, internet telephony deployment

**11 Tempus fight and the need for an e-social contract**

 James Kaufman, Joann Ruvolo, Daniel Ford

May 2001 **Proceedings of the fifth international conference on Autonomous agents**

**Publisher:** ACM Press

Full text available:  pdf(114.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For autonomous agents to achieve their full potential they require access to detailed private information. The time is rapidly approaching when we can build systems to gather this information and monitor all aspects of an individual's life. In this paper we describe Tempus Fugit (Time Flies), an attempt to create just such a system. The reality of this technology has enormous social implications and, misused, it creates direct threats to liberty. We further describe an "e-Social Contr ...

**Keywords:** active calendar, agent, calendar, personal information management system, social contract

**12 Toolkits: Revisiting visual interface programming: creating GUI tools for designers**

 and programmers

Stéphane Chatty, Stéphane Sire, Jean-Luc Vinot, Patrick Lecoanet, Alexandre Lemort, Christophe Mertz

October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology**

**Publisher:** ACM Press

Full text available:  pdf(1.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Involving graphic designers in the large-scale development of user interfaces requires tools that provide more graphical flexibility and support efficient software processes. These requirements were analysed and used in the design of the TkZ-inc graphical library and the IntuiKit interface design environment. More flexibility is obtained through a wider palette of visual techniques and support for iterative construction of images, composition and parametric displays. More efficient processes ...

**Keywords:** GUI tools, SVG, model-driven architecture, software architecture, vector graphics, visual design

**13 Scenarios of using web services in M-commerce**

 T. Pilioura, A. Tsalgatidou, S. Hadjiefthymiades

December 2002 **ACM SIGecom Exchanges**, Volume 3 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(208.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The web service paradigm is a promising technology for developing applications in open, distributed and heterogeneous environments. The proliferation of this new technology has coincided with significant advances in the hardware and software capabilities of mobile devices. Due to the great benefits that come with the web service technology, such as interoperability, dynamic service discovery and reusability, there is a strong interest in making mobile devices capable of providing and consuming w ...

**Keywords:** m-commerce, web services, wireless devices

**14**

**Knowledge Management: Organizing What You Know: Tempus Fugit: a system for**

 [making semantic connections](#)

Daniel A. Ford, Joann Ruvolo, Stefan Edlund, Jussi Myllymaki, James Kaufman, Jared Jackson, Martin Gerlach

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  [pdf\(2.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tempus Fugit ("Time Flies") is the first of a new generation of *Personal Information Management* (PIM) systems. A PIM system incorporates an electronic calendar, "to-do" list and address book. The premise behind Tempus Fugit is that information stored in electronic calendars, to-do lists and address books can be given richer semantic interpretation and automatically processed to make its users more effective. Tempus Fugit also tracks the physical and virtual locations of users and uses thi ...

**Keywords:** PIM, active calendar, electronic address book, electronic calendar, location based services, location tracking, mobile productivity, personal information management, software agents

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Relevance scale      **1 Browsing: Building voiceXML browsers with openVXI** Brian Eberman, Jerry Carter, Darren Meyer, David Goddeau May 2002 **Proceedings of the 11th international conference on World Wide Web****Publisher:** ACM PressFull text available:  pdf(209.58 KB) Additional Information: full citation, abstract, references, index terms

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**Keywords:** openVXI, voiceXML**2 VoiceXML for Web-based distributed conversational applications** Bruce Lucas September 2000 **Communications of the ACM**, Volume 43 Issue 9**Publisher:** ACM PressFull text available:  pdf(79.71 KB)  html(21.89 KB) Additional Information: full citation, citations, index terms**3 Posters: XISL: a language for describing multimodal interaction scenarios** Kouichi Katsurada, Yusaku Nakamura, Hi robumi Yamada, Tsuneo Nitta November 2003 **Proceedings of the 5th international conference on Multimodal interfaces****Publisher:** ACM PressFull text available:  pdf(152.59 KB) Additional Information: full citation, abstract, references, index terms

This paper outlines the latest version of XISL (eXtensible Interaction Scenario Language). XISL is an XML-based markup language for web-based multimodal interaction systems. XISL enables to describe synchronization of multimodal inputs/outputs, dialog flow/transition, and some other descriptions required for multimodal interaction. XISL inherits these features from VoiceXML and SMIL. The original feature of XISL is that XISL has enough modality-extensibility. We present the basic XISL tags, outl ...

**Keywords:** XISL, XML, modality extensibility, multimodal interaction

**4 WebViews: accessing personalized web content and services**

 Juliana Freire, Bharat Kumar, Daniel Lieuwen

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(305.83 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Web clipping, content transcoding, dynamic content, electronic commerce, information delivery, personalization, smart bookmarks, voice interfaces, wrappers

**5 Component-based multimodal dialog interfaces for mobile knowledge creation**

Georg Niklfeld, Robert Finan, Michael Pucher

July 2001 **Proceedings of the workshop on Human Language Technology and Knowledge Management - Volume 2001**

**Publisher:** Association for Computational Linguistics

Full text available:  pdf(55.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper addresses two related topics: Firstly, it presents building-blocks for flexible multimodal dialog interfaces based on standardized components (VoiceXML, XML) to indicate that thanks to well-supported standardizations, mobile multimodal interfaces to heterogeneous data sources are becoming ready for mass-market deployment, provided that adequate modularization is respected. Secondly, this is put in the perspective of a discussion of knowledge management in firms, and the paper argues t ...

**6 Posters & demos: WebContext: remote access to shared context**

 Robert G. Capra, Manuel A. Pérez-Quiñones, Naren Ramakrishnan

November 2001 **Proceedings of the 2001 workshop on Perceptive user interfaces PUI '01**

**Publisher:** ACM Press

Full text available:  pdf(136.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we describe a system and architecture for building and remotely accessing shared context between a user and a computer. The system is designed to allow a user to browse web pages on a personal computer and then remotely make queries about information seen on the web pages using a telephone-based voice user interface.

**Keywords:** VoiceXML, information access, shared context, software architecture, telephone-based user interfaces, voice user interfaces

**7 Mixed-initiative interaction = mixed computation**

 Naren Ramakrishnan, Robert G. Capra, Manuel A. Pérez-Quiñones

January 2002 **ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation PEPM '02**, Volume 37 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(198.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We show that partial evaluation can be usefully viewed as a programming model for realizing mixed-initiative functionality in interactive applications. Mixed-initiative interaction between two participants is one where the parties can take turns at any time to change and steer the flow of interaction. We concentrate on the facet of mixed-initiative referred to as 'unsolicited reporting' and demonstrate how out-of-turn interactions by users can be modeled by 'jumping ahead' to nested dialogs (via ...

**Keywords:** Mixed-initiative interaction, VoiceXML, dialog management, interaction sequences, partial evaluation

**8 Bazaars, services, and systems: Experimental platform for mobile information****systems**

Rudi Belotti, Corsin Decurtins, Moira C. Norrie, Beat Signer, Ljiljana Vukelja  
August 2005 **Proceedings of the 11th annual international conference on Mobile computing and networking MobiCom '05**

**Publisher:** ACM Press

Full text available:  pdf(987.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interaction design is a major issue for mobile information systems in terms of not only the choice of input-output channels and presentation of information, but also the application of context-awareness. To support experimentation with these factors, we have developed a platform that supports the rapid prototyping of multi-channel, multi-modal, context-aware applications. The paper presents the main components of the platform and describes how it was used to develop a tourist information system ...

**Keywords:** interactive paper, mobile information system, rapid prototyping, tourist guide, voice interface, web publishing

**9 Spoken dialogue technology: enabling the conversational user interface****Michael F. McTear**

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(987.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

**Keywords:** Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

**10 Demonstrations: WinAgent: a system for creating and executing personal information****assistants using a web browser**

Nikeeta Julasana, Akshat Khandelwal, Anupama Lolage, Prabhdeep Singh, Priyanka Vasudevan, Hasan Davulcu, I. V. Ramakrishnan

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

**Publisher:** ACM Press

Full text available:  pdf(334.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WinAgent is a software system for creating and executing Personal Information Assistants (PIAs). These are software robots that can locate and extract targeted data buried deep within a web site. They do so by automatically navigating to relevant sites, locating the correct Web pages (which can be either directly accessed by traversing appropriate links or by filling out HTML forms), and extracting, structuring, and organizing data of interest from these pages into XML. The primary thrust of Win ...

**Keywords:** XML, agents, browser, machine learning, web

**11 Posters & demos: BlackBoardNV: a system for enabling non-visual access to the****blackboard course management system**

Vineet Enagandula, Niraj Juthani, I. V. Ramakrishnan, Devashish Rawal, Ritwick Vidyasagar

October 2005 **Proceedings of the 7th international ACM SIGACCESS conference on Computers and accessibility Assets '05**

Publisher: ACM Press

Full text available: [pdf\(92.86 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** audio output, audio/keyboard input, web page partitioning, web-based assistive course management, web-content analysis

**12 Commerce and Businesses: A voice and ink XML multimodal architecture for mobile**

 **e-commerce systems**

Zouheir Trabelsi, Sung-Hyuk Cha, Darshan Desai, Charles Tappert

September 2002 **Proceedings of the 2nd international workshop on Mobile commerce**

Publisher: ACM Press

Full text available: [pdf\(445.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a multimodal interface architecture that combines standardized voice and ink formats to facilitate the creation of robust and efficient multimodal mobile e-Commerce systems, particularly for noisy mobile environments. The platform provides a Web interactive system for generic multimodal application development. By providing mutual disambiguation of input signals and superior error handling this architecture should broaden the spectrum of users to the general population, inclu ...

**Keywords:** InkXML, VoiceXML, handwriting recognition, multimodal applications, mutual disambiguation, speech recognition

**13 Full papers: A visual programming environment for device independent generation of**

 **user interfaces**

Oscar Mayora-Ibarra, Oscar de la Paz-Arroyo, Edgar Cambranes-Martínez, Alejandro Fuentes-Penna

August 2003 **Proceedings of the Latin American conference on Human-computer interaction CLIHC '03**

Publisher: ACM Press

Full text available: [pdf\(450.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The promise of information anytime, anywhere has become a reality. Today, it is possible to access information through multiple kinds of devices. However, the design of user interfaces for such devices is restricted to the use of specific adhoc programming languages that may vary from one device to the other. In this sense, the existence of generic programming languages for creating device-independent user interfaces is becoming a strong necessity. One emerging approach to device independent dev ...

**Keywords:** J2ME, UIML, VXML, WML, XSLT, generic vocabulary, visual programming

**14 An open architecture for next-generation telecommunication services**

 Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming  
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(237.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many

deficiencie ...

**Keywords:** Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

**15 Posters: A transformational approach for multimodal web user interfaces based on UsiXML**

 Adrian Stanciulescu, Quentin Limbourg, Jean Vanderdonckt, Benjamin Michotte, Francisco Montero

October 2005 **Proceedings of the 7th international conference on Multimodal interfaces ICMI '05**

Publisher: ACM Press

Full text available:  pdf(700.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A transformational approach for developing multimodal web user interfaces is presented that progressively moves from a task model and a domain model to a final user interface. This approach consists of three steps: deriving one or many abstract user interfaces from a task model and a domain model, deriving one or many concrete user interfaces from each abstract one, and producing the code of the corresponding final user interfaces. To ensure these steps, transformations are encoded as graph tran ...

**Keywords:** model-driven development, multimodal interaction, transformational approach, user interface eXtensible markup language

**16 Automated systematic testing for constraint-based interactive services**

 Patrice Godefroid, Lalita J. Jagadeesan, Radha Jagadeesan, Konstantin Läufer

November 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th ACM SIGSOFT international symposium on Foundations of software engineering: twenty-first century applications SIGSOFT '00/FSE-8, Volume 25 Issue 6**

Publisher: ACM Press

Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Constraint-based languages can express in a concise way the complex logic of a new generation of interactive services for applications such as banking or stock trading, that must support multiple types of interfaces for accessing the same data. These include automatic speech-recognition interfaces where inputs may be provided in any order by users of the service. We study in this paper how to systematically test event-driven applications developed using such languages. We show how such applic ...

**Keywords:** constraint-based languages, interactive services, model checking, state explosion, state-space reduction, testing, verification

**17 Multimedia: Streaming speech<sup>3</sup>: a framework for generating and streaming 3D text-to-speech and audio presentations to wireless PDAs as specified using extensions to SMIL**

 Stuart Goose, Sreedhar Kodlahalli, William Pechter, Rune Hjelsvold

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(108.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While monochrome unformatted text and richly colored graphical content are both capable of conveying a message, well designed graphical content has the potential for better engaging the human sensory system. It is our contention that the author of an audio

presentation should be afforded the benefit of judiciously exploiting the human aural perceptual ability to deliver content in a more compelling, concise and realistic manner. While contemporary streaming media players and voice browsers share ...

**Keywords:** 3D audio, PDA, SMIL, accessibility, location-based, mobile, spatialization, speech synthesis, streaming, wireless

**18 Extending Java for high-level Web service construction**

 Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

**Publisher:** ACM Press

Full text available:  pdf(947.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

**Keywords:** Interactive Web services, XML, data-flow analysis

**19 A scalable formal method for design and automatic checking of user interfaces**

 Jean Berstel, Stefano Crespi Reghizzi, Gilles Roussel, Pierluigi San Pietro

April 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.74 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The article addresses the formal specification, design and implementation of the behavioral component of graphical user interfaces. The complex sequences of visual events and actions that constitute dialogs are specified by means of modular, communicating grammars called VEG (Visual Event Grammars), which extend traditional BNF grammars to make them more convenient to model dialogs. A VEG specification is independent of the actual layout of the GUI, but it can easily be integrated with various la ...

**Keywords:** GUI design, Human-computer interaction (HCI), applications of model checking

**20 Improving the browsing experience: A framework for coordinated multi-modal browsing with multiple clients**

 Alistair Coles, Eric Deliot, Tom Melamed, Kevin Lansard

May 2003 **Proceedings of the 12th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(111.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As users acquire or gain access to an increasingly diverse range of web access clients, web applications are adapting their user interfaces to support multiple modalities on multiple client types. User experiences can be enhanced by clients with differing capabilities combining to provide a distributed user interface to applications. Indeed, users will be frustrated if their interaction with applications is limited to one client at a time. This paper discusses the requirements for coordinating we ...

**Keywords:** multi-modal browsing, web proxy

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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